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	7/1/2	BR	5,843,910)	12/	1999		Bombardelli et al.					
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01	AR	3,442,953	<u> </u>	05/	1969		Mulie	r et al.	568	315)	(п арргорг	iate
N.	BR	5,880,160			1999			delli et al.	514	625			
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DX.	GR	Boyé et al. "Pot Isothiocyanato						ne-Binding-Site . 2), 142-150	• •				
X	HR	Boye et al., "Na of demethox (1992), 70 (5), 1	y anal	ogues	s. Anti	itubulir aminod	n effect of con colchinyl meth	geners of N-acet lyl ether", Can. J.	ylocolchinyl Chem.,			-	
00	IR				Labe	lled El	ectrophilic Lic	ands of the Colc	hicine				
XX.		9-Deoxy-N-Ace 299	tylcolch	ninol."	J. Lab	elled (Compd Radio	pharm., (1993) 3	3(4), 293-				
X	JR	Brecht et al., "(- Consecutive (11) 2451-2460)-(M,79 e [4+2]	S)-Col and (3	chicine 3+2] C	and (ycload	-)-(M,7S)-10- ditions", Eur.	Ethylthiocolchicion Jour. Org. Ohem	le/Alkyne . (1998)				
X	KR	Brossi et al., "at allocongeners",	, 7S-a F ER S	bsolu Lett.,	te con (1990)	figurati), 262 (on of natural (1), 5-X	(-)-colchicine and					
X	LR	Dehoum et al., "Acta Chem. Sca						Allocolchicine Sp	oin Probe"				
X	MR	Dilger et al., "Ar Formaldehyd-O Prakt Chem./Ck	-oxid u	nd Co	olchicir	٠ę: ein	eleganter Zug	gang zu Allocolci	cinen", J.	*			x
X	NR	Dokl Akad Naul	$\overline{}$								х		x
X	OR	Dumortier et al.	"Alter to Tub	nation	s of R	ings B	and Cof Cold	chicine Are Cumu p", Biochemistry,	lative in (1996), 35				
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X	GR	Fernholz, "Über Struktur des Rir (1950), 63-82	die Ur nges C	lage '', Ju	rung de Istus Li	es Colo ebigs A	Ann. Chem.,	triumalkoholat CODEN: JLAC	und die BF, 568,					
X	HR	Fitzgerald, "Mol and Inhibition of 1383-1387												
X	IR	Ohera et al., "To Commun., (197				ınan (±	-)-Schizandrin	", J. Chem. So	oc., Chem.					
X	JR	Hahn et al., "Syl Photochemistry 27	nthesis , and T	and l ubulir	Evalual Bindir	tion of ng", Ph	2-Diazo 3,3,3 otochem. Pho	-Trifluoropropotobiol., (1992)	anoyl) 5§ (1), 17-	./				
X	KR	Han et al., "Dist	ances b	 cetwe	enthe	Paelita	xel Colchicir	ne and Exhan	neable GTE	,				
		Binding Sites or	Tubul	in", Bi	iochem	istry, (1998), 37 (19), 6636-6644						
<i>X</i>	LR	Hastie, "Spectro Pharmacology,	(199 %),	1 (8)	ippl. 1)	, S17-	S21 \				_			
X		Hastie, "Spectro Biochemistry, (1	989), 2	8/(19), 7753	-7760		X		,				
	NR	Hrbek et al., "Cli Derivatives", Co	cular E llect. C	Dichra zech.	chem	Alkaloi . Comr	ids of Colchic nun., (1982),	ine Type And 47 (8), 2258-2	Their 279					
7	OR	lorio, "Contraction", Hete						by Hydrogen F	Peroxide					
Examiner							Date Conside							
*EXAMINE	7	Initial if citation co	eidered	l, whe	ther or r	not citat	ion is in confor	mance with MPI	EP § 609. D	raw lii	ne throu	igh ci	tation if r	rot
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X	IR		erivat					. Khim., (1970), 4	0 (4), 914-				
Xı	JR		tives o	f Amir	nocolci	hicide.	VII", Zh. Zh. C)bshch. Khim., (1	971), 41				
X	KR	phenyliodine (III 1481-1482) bis(tr	ifluoro	oaceta	te)", Cl	hem. Commur	e ther derivat īves u I. (Cambrid ge), (1	996) (12),				
X	LR	Leiter et al., "Da Derivatives Rela Inst., (1952), 13	ated to	Trime	ed in S ethylco	Sarcon Ichicin	na 37 with Che lic Acid and to	mical Agents, III. Colchinol", J. Nat	Colchicine I. Cancer				
X	MR	Struct Commun	llocolo , (199	hicine 1) C47	, C ₂₀ H ' (12),	₂₂ Br ₂ N 2615-2	₂ O₄", Acta Cry 2618	stallogr, Section (
X	NR	Medrano, "Rote Biochemistry, (1						nding Process to	Tubulin",				<u></u>
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AR BR CR FOREIGN PATENT DOCUMENTS Document Number MM/YYYY Date Inventor Name Date Country Inventor Name Document Number Date Country Inventor Name Enclosed No Colchicities Site Lugands* J. Biol. Chem., (1989), 264, (28), 16367-16371 HR Olszewski et al., "A Inexmodynamic Study, of the Interaction of Tubulin with Colchicities Site Lugands* J. Biol. Chem., (1989), 264, (28), 16367-16371 HR Olszewski et al., "Rotential Photoaffinity Labels for Tubulin. Synthesis and Colchicities, Combrevatation, and 3.4.8-Trimethoxytiphenyi", J. Org. Chem., (1994), 59 (15) 4285-4296 IR Ondra et al., "Colchicinoide – Ihre Toxizität Und Biologische Activität", Acta Univ Palacki Olomuc Fac Med. (1995) 139, 17-18 JR Palmquist et al., "Anodic Oxidation of Phenolic Compounds. 4. 19 Scope and Mechanism of the Anodic Intramolecular Coupling of Phenolic Diarylalkanes", J. Am. Chem. Soc., (1976), 98(9), 2571-2580 KR Perez-Ramirez et al., "Cosolvent Modulation of the Tubulin-Colchicine GTPase-Activating Conformational Change: Strength of the Enzymatic Activity", Biochemistry, (1994), 33 (20), 6262-6267 LR Perez-Ramirez et al., "Stoichiometric and Substoichiometric Inhibition of Tubulin Self-Assembly by Colchicine Analogues", Biochemistry, (1998), 37 (6), 1646-1661 MR Perez-Ramirez et al., "Stoichiometric and Substoichiometric Inhibition of Tubulin Self-Assembly by Colchicine Analogues", Biochemistry, (1998), 37 (6), 1040-1040 Remainer Date Considered Examiner Date Considered Texaminer Interpretation of Date Conformance with MPEP § 609. Draw line through citation is in conformance with MPEP § 609. Draw line through citation is in conformance with MPEP § 609. Draw line through citation is selected.			US										
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X	HR	Colchicine, Cor	nbretas	ntial F statin,	Photoa and 3	ffinity 1 45-Tr	abels for Tubuimethoxybiphe	ய்சு. Synthesis ar nyl", J. Org. Che	nd m., (1994), 				
Patent and Trademark Office INFORMATION DISCLOSHRE STATEMENT SP # 2 200 Sp													
W.	JR	Mechanism of t	he And	dic In	tramol	ecular	Coupling of Ph	nds. 4. ^{1a} Scope enolic Diarylalka	and anes", J.				
	KR	Activating Conf	ormatio	onal C	hange	: Stren	gth of the Enzy		STPase-				
	LR	C (C') Oxygens	et al., ' and R	'Linka ing B	ges in in the	Tubuli Contro	n-Colchicine F ls", Biochemist	unctions: The Rery, (1998), 37 (6	oe of Ring), 1646-				
OSE291-5137 Z70457-1P US Applicant: Davis et al. Applicant: Da													
	NR	the Product. Ac	tivatior	ı by M	Colchic	cine-Inc oule-Pi	duced GTPase comoting Cosol	Activity of Tubu vents," Biochem	lin: State of istry,				
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X	GR	Power et al. "R Action", Med. C	Colle of	Ring	S-Subs	tituent	s Related to Allocolchicine on	Antitubulin				
200	HR	Prakash et al., '	'Aging	of Tul	oulin a	Neutr	ral pH: Stabilization by Colchici hysics (1992), 295 (1), 146-15	ne and its 2				
D	IR	Tubulin and Allo 7086-93	ocolchi	cinoid	-Tubul	in Con	ent in the Fluorescence of Colonplexes", Biochemistry, (1992)	, 31 (31),				
	JR	Microtubule-Inh (10), 3286-3289	ibiting)	Biphe	nyl An	alogue	ubstoichiometric and Stoichion es of Colchicine", Biochemistry	, (1996), 35 				
	KR	Schönharting e Formation of Pr Z. Physiol.Cher	oducts	from	Colchi	cine in	nation of Colchicine I. The Oxic i the Udenfriend System", Hop 36	dative pe-Seyler's	X			
	LR	Shearwin et al., Subunits: The L	"Effec	t of Colo	olchici hicine	ne Ana Bindir	alogues on the Dissociation of ang.", Biochemistry, (1994), 33 (4	χβ into I), 894-901				
V	MR	Shi et al., "Antit Compounds De	umor A	gents	Part 1	184 ¹) S n of Th	Syntheses and Antibutulin Activ niocolchicone with Amiens: Lac olchicinoids", Helv Chim Acta, (ity of tams,				
XX	NR	Shi et al., "Antit Antitubulin Acti	umor A	gents Alloch	. 183. iocolch	Synthe	eses, Conformational Analyses ds", J. Org. Chem., (1998), 63,	, and 4018-4025				
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				Brain Tubulin",	Bioch	emistr	y, (198	38), 27	(5), 1508-1514					
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